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| U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE<br><br><b>TRANSMITTAL LETTER TO THE UNITED STATES</b><br><b>DESIGNATED/ELECTED OFFICE (DO/EO/US)</b><br><b>CONCERNING A FILING UNDER 35 USC 371 AND 37 CFR 1.491</b>  |  | ATTORNEY DOCKET NO.<br>216190<br>U.S. APPLICATION NO.<br><div style="font-size: 1.5em; font-weight: bold;">10/089963</div> |
| INTERNATIONAL APPLICATION NO.<br>PCT/GB00/03946-64   | INTERNATIONAL FILING DATE<br>16 October 2000 | PRIORITY DATE CLAIMED<br>19 October 1999   |
| TITLE OF INVENTION<br>METHODS AND APPARATUS FOR DRIVING A QUADRUPOLE ION TRAP DEVICE   |  |  |
| APPLICANT(S) FOR DO/EO/US<br>DING, Li and NUTTALL James E.   |  |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |  |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 USC 371 and 37 CFR 1.491.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 USC 371 and 37 CFR 1.491.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 USC 371(f)).</li> <li>4. <input type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (PCT Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 USC 371(c)(2))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 USC 371(c)(2)).</li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 USC 371(c)(3))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input checked="" type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 USC 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 USC 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 USC 371(c)(5)).</li> <li>11. Nucleotide and/or Amino Acid Sequence Submission           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> Computer Readable Form (CRF)</li> <li>b. Specification Sequence Listing on:               <ol style="list-style-type: none"> <li>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</li> <li>ii. <input type="checkbox"/> Paper Copy</li> </ol> </li> <li>c. <input type="checkbox"/> Statement verifying identity of above copies</li> </ol> </li> </ol> |  |  |
| <b>Items 12 to 19 below concern other document(s) or information included:</b>   |  |  |
| <ol style="list-style-type: none"> <li>12. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.           <div style="margin-left: 20px;"> <input type="checkbox"/> Form PTO-1449<br/> <input type="checkbox"/> Copies of Listed Documents           </div> </li> <li>13. <input type="checkbox"/> An assignment for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>14. <input checked="" type="checkbox"/> A FIRST preliminary amendment.<br/> <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>17. <input type="checkbox"/> Application Data Sheet Under 37 CFR 1.76</li> <li>18. <input checked="" type="checkbox"/> Return Receipt Postcard</li> <li>19. <input type="checkbox"/> Other items or information:</li> </ol>  |  |  |

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| U.S. APPLICATION NO.<br><b>107 089963</b> |  | INTERNATIONAL APPLICATION NO.<br>PCT/GB00/03964 |  | ATTORNEY DOCKET NO.<br>216190 |  |
|---|--|---|--|-------------------------------|--|

|   |              |              |            |                           |              |
|---|--------------|--------------|------------|---------------------------|--------------|
| 20. <input checked="" type="checkbox"/> The following fees are submitted:   |              |              |            | CALCULATIONS              | PTO USE ONLY |
| <b>Basic National Fee (37 CFR 1.492(a)(1)-(5)):</b><br>Neither international preliminary examination fee (37 CFR 1.482)<br>nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO<br>and International Search Report not prepared by the EPO or JPO ..... \$1,040.00<br>International preliminary examination fee (37 CFR 1.482) not paid to<br>USPTO but International Search Report prepared by the EPO or JPO ..... \$ 890.00<br>International preliminary examination fee (37 CFR 1.482) not paid to USPTO,<br>but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... \$ 740.00<br>International preliminary examination fee paid to USPTO (37 CFR 1.482)<br>but all claims did not satisfy provisions of PCT Article 33(1)-(4)..... \$ 710.00<br>International preliminary examination fee paid to USPTO (37 CFR 1.482)<br>and all claims satisfied provisions of PCT Article 33(1) to (4) ..... \$ 100.00 |              |              |            |                           |              |
| <b>ENTER APPROPRIATE BASIC FEE AMOUNT=</b>  |              |              |            | \$1,040.00                |              |
| Surcharge of \$130.00 for furnishing the National fee or oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date  |              |              |            | \$                        |              |
| CLAIMS  | NUMBER FILED | NUMBER EXTRA | RATE       |                           |              |
| Total Claims  | 34 -20=      | 14           | x \$ 18.00 | \$252.00                  |              |
| Independent Claims  | 2 - 3 =      | 3            | x \$ 84.00 | \$0.00                    |              |
| <input type="checkbox"/> Multiple Dependent Claim(s) (if applicable)  |              |              | +\$280.00  | \$0.00                    |              |
| <b>TOTAL OF ABOVE CALCULATIONS=</b>   |              |              |            | \$1,292.00                |              |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.  |              |              |            | \$                        |              |
| <b>SUBTOTAL=</b>  |              |              |            | \$1,292.00                |              |
| Processing fee of \$130.00 for furnishing English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date.  |              |              |            | \$                        |              |
| <b>TOTAL NATIONAL FEE=</b>  |              |              |            | \$1,292.00                |              |
| Fee for recording the enclosed assignment. The assignment must be accompanied by an appropriate cover sheet. \$40.00 per property   |              |              |            | +                         | \$           |
| <b>TOTAL FEE ENCLOSED=</b>  |              |              |            | \$1,292.00                |              |
|   |              |              |            | Amount to be:<br>refunded | \$ 1         |
|   |              |              |            | charged:                  | \$           |

a. ☒ A check in the amount of \$1,292.00 to cover the above fee is enclosed.


b. ☐ Please charge Deposit Account No. 12-1216 in the amount of \$            to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 12-1216. A duplicate copy of this sheet is enclosed.

**NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.**

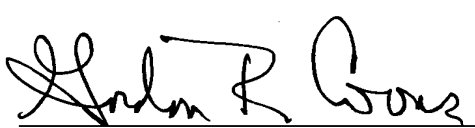
SEND ALL CORRESPONDENCE TO:

Customer Number: 23460



**23460**

PATENT TRADEMARK OFFICE



Gordon R. Coons, Registration No. 20821  
One of the Attorneys for Applicant(s)

Date: April 8, 2002

U.S. APPLICATION NO.

107 089963

INTERNATIONAL APPLICATION NO.

PCT/GB00/03964

ATTORNEY DOCKET NO.

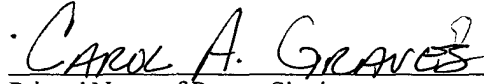
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## CERTIFICATION UNDER 37 CFR 1.10

"Express Mail" Label Number: EL643544788US

Date of Deposit: April 8, 2002

I hereby certify that this express request to begin national examination procedures under 35 USC 371(f) of the International Patent Application referenced above, including all of the items listed thereon as enclosures, is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to Box PCT, Commissioner for Patents, Attention: DO/EO/US, Washington, D.C. 20231.



Printed Name of Person Signing:



Signature